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Model #: SMART2200RMXL2UP

SmartPro 2.2kVA Line Interactive Sine Wave UPS, 1920 watts, Extended-run & SNMPWEBCARD options, 2U Rack/Tower, USB, Serial, EPO, 100/110/120V

Highlights

- 2.2kVA / 2200VA / 1920W line interactive 2U rack/tower UPS; 0.87 power factor
- 100/110/120V nominal output with 83V to 145V input; Sine wave output
- USB, RS232, EPO & optional SNMP/Web card are available for simultaneous use
- Front panel status LEDs with load level and battery capacity display
- Expandable runtime; 96% line-mode efficiency; 2 switched output load banks
- NEMA 5-20P input; 4 NEMA 5-15/20R & 4 NEMA 5-15R outlets

Description

Tripp Lite's SmartPro SMART2200RMXL2UP 2U Rackmount Uninterruptible Power Supply (UPS) offers network-grade line interactive voltage regulation, surge suppression and long lasting, expandable battery support for critical network hardware during blackouts, brownouts and extended power failures. High .87 power-factor configuration with 1920 watt output capacity makes this UPS ideal for a variety of networking, industrial and other high performance applications. 96% line power mode efficiency saves operating costs and BTU heat output. Runtime is expandable with optional BP48V60RT3U and BP48V24-2U external battery packs. Maintains battery-derived sine wave AC output during power failures and extreme voltage variations. Line interactive Automatic Voltage Regulation (AVR) provides two levels of voltage boost during brownouts and one level of voltage cut during overvoltage conditions to maintain regulated 100 / 110 / 120V nominal output over an input range of 83-145V. Includes NEMA 5-20P input plug, NEMA 5-15R and 5-15/20R output receptacles. Network management interfaces support simultaneous communications via USB, DB9 serial and optional SNMP/Web management accessory card slot. Optional SNMPWEBCARD offers remote management and control of the UPS via built-in network interface. ENVIROSENSE accessory works with SNMPWEBCARD to report temperature, humidity and status of up to 4 optional SRWITCH door access sensors or other user supplied contact closure sensors. HID-compliant USB interface enables full integration with built-in power management and auto shutdown features of Windows and Mac OS X. Supports detailed monitoring of equipment load levels, self-test data and utility power conditions via all 3 network interfaces at once. Includes PowerAlert monitoring software with USB and serial cables. Emergency Power Off (EPO) interface. Integrated 2-bank programmable PDU switching supports load shedding and remote-reboot of up to 2 individual connected devices. 3-stage metered current monitoring and battery charge status LEDs. Utility power and voltage regulation LEDs. Audible alarm. Self-test. Supports 2U rackmount installation with a maximum depth of 19 inches. 4-post rackmount accessories included; 2-9USTAND tower stands and 2POSTRMKITWM two post rackmount or wallmount installation kit available. Field-replaceable, hot-swappable internal batteries and external battery packs.

Package Includes

- SMART2200RMXL2UP UPS system
- 4 post rackmount installation rails
- PowerAlert software
- USB, serial and EPO cabling

Features

- SmartPro SMART2200RMXL2UP 2U rackmount UPS offers network-grade line interactive voltage regulation, surge suppression and expandable battery support during blackouts, brownouts and extended power failures
- Ideal for a variety of networking, telecommunications, industrial and other high performance applications requiring complete network-grade line interactive UPS protection
- High .87 power-factor configuration with 1920 watt output capacity supports the maximum continuous output current available from a 20A 120V circuit
- 96% line power mode efficiency saves operating costs and BTU heat output
- Maintains fully regulated sine wave AC output during power failures and extreme voltage variations
- Line interactive Automatic Voltage Regulation (AVR) maintains regulated 100/110/120V nominal output without using battery power during brownouts and overvoltages from 83 to 145V

- Includes NEMA 5-20P input plug, 4 NEMA 5-15R and 4 5-15/20R output receptacles
- Two individually switched outlets support automatic load shedding and real time remote-reboot operations of 2 individual connected devices
- Network management interfaces support simultaneous communications via USB, DB9 serial and optional SNMP/Web management accessory card slot
- Optional SNMPWEBCARD offers remote management and direct UPS control via built-in network interface
- Optional ENVIROSENSE accessory reports temperature and humidity (requires SNMPWEBCARD)
- ENVIROSENSE also supports the connection of up to 4 SRSWITCH door access sensors and user supplied contact closure monitoring accessories
- HID-compliant USB interface enables full integration with built-in power management and auto shutdown features of Windows and Mac OS X
- Supports detailed monitoring of equipment load levels, self-test data and utility power conditions via all 3 network interfaces at once
- Includes PowerAlert monitoring software with USB and serial cables
- Emergency Power Off (EPO) interface
- 3-stage metered current monitoring and battery charge status LEDs
- Utility power and voltage regulation LEDs, audible alarm and self self-test ability
- Supports 2U rackmount installation with a maximum depth of 19 inches
- 4-post rackmount accessories included; 2-9USTAND tower stands and 2POSTRMKITWM 2 post rackmount or wallmount installation kit available
- Field-replaceable, hot-swappable internal batteries and external battery packs
- Some external battery configurations require the use of Tripp Lite's External Battery Configuration Software (see manual)

Specifications

OUTPUT	
Output Volt Amp Capacity (VA)	2200
Output kVA capacity (kVA)	2.2
Output Watt Capacity (watts)	1920
Output kW capacity	1.92
Output power factor	0.87
Output Capacity Details	Supports 1750 watts when set to 110V nominal; Supports 1600 watts when set to 100V nominal
Nominal Output Voltage(s) Supported	100V; 110V; 120V
Nominal Voltage details	120V factory setting
Frequency compatibility	50 / 60 Hz
Output voltage regulation (line mode)	120V (+6% / -14%); 110V (+6% / -12%); 100V (+11% / -7%)
Output voltage regulation (Battery mode)	+/- 5%
Built-in UPS output receptacles	4 5-15R outlet(s); 4 5-15/20R outlet(s)
Built-in controllable switched load banks	Two switchable single-outlet 5-15R load banks
Output AC waveform (AC mode)	Sine wave
Output AC waveform (battery mode)	Pure Sine wave
INPUT	

Rated input current (at maximum load)	13.3A (120V), 14.6A (110V), 16.0A (100V)
Nominal Input Voltage(s) Supported	100V AC; 110V AC; 120V AC
Nominal input voltage description	Nominal voltage selection via back panel dipswitches
UPS input connection type	5-20P
UPS Input cord length (ft.)	10
UPS Input cord length (m)	3
Recommended Electrical Service	20A 100/110/120V
BATTERY	
Full load runtime (minutes)	5 min. (1920w)
Half load runtime (minutes)	13 min. (960w)
Expandable battery runtime	Extended runtime supported via optional external battery packs
External battery pack compatibility	BP48V24-2U (limit 1); BP48V60RT-3U (multi-pack compatible)
DC system voltage (VDC)	48
Battery recharge rate (included batteries)	Less than 4.5 hours from 10% to 90%
Replacement battery cartridge (internal UPS battery replacement)	RBC94-2U
Battery Access	Front panel battery access door
Battery replacement description	Hot-swappable, user replaceable batteries
VOLTAGE REGULATION	
Voltage regulation description	Automatic voltage regulation (AVR) maintains regulated line power output with an input voltage range of 83-145 (120V), 87-133 (110V), 83-121 (100V)
Overvoltage correction	Voltage reduction of 12% applies when input is between 127 and 145 (120V), 116 and 133 (110V), 111 and 121 (100V)
Undervoltage correction	Voltage boost of 12% applies when input voltage is between 95 and 108 (120V), 87 and 99 (110V), 83 and 90 (100V)
Severe undervoltage correction	Voltage boost of 24% applies when input voltage is between 83 and 95 (120V only)
LEDS ALARMS & SWITCHES	
LED Indicators	5 LEDs indicate line power, battery power, overload, voltage regulation and battery low/replace status
Alarms	Audible alarm indicates power-failure, overload and low-battery conditions
Alarm cancel operation	Power-fail alarm can be silenced using alarm-cancel switch; once silenced, alarm will re-sound to indicate low-battery status
Switches	2 Switches control off/on power status and alarm-cancel/self-test operation; rear panel protected switches support nominal voltage selection and charge rate

SURGE / NOISE SUPPRESSION	
UPS AC suppression joule rating	570
UPS AC suppression response time	Instantaneous
EMI / RFI AC noise suppression	Yes
PHYSICAL	
Installation form factors supported with included accessories	4 post 19 inch rackmount (mounting rail kit included)
Included mounting accessory description	Adjustable mounting rail kit included
Installation form factors supported with optional accessories	2 post rackmount (2POSTRMKITWM); Wallmount (2POSTRMKITWM); Tower (2-9USTAND)
Primary form factor	Rackmount
UPS / Power Module dimensions in primary form factor (height x width x depth / inches)	3.5 x 17.5 x 19
UPS / Power Module dimensions in primary form factor (height x width x depth / cm)	8.9 x 44.4 x 48.3
Installed whole system total rack space height (rack spaces)	2U
Secondary form factor	Tower (requires 2-9USTAND)
UPS / Power Module weight (lbs)	64
UPS / Power Module weight (kg)	29.1
UPS Shipping dimensions (height x width x depth / inches)	9 x 23.5 x 20
UPS Shipping dimensions (height x width x depth / cm)	22.9 x 59.7 x 50.8
Shipping weight (lbs)	72
Shipping weight (kg)	32.7
UPS housing material	Steel
Cooling method	Fan
ENVIRONMENTAL	
Operating Temperature Range	+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius.
Storage Temperature Range	+5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius.

Relative Humidity	0 to 95%, non-condensing
AC mode BTU / hr. (full load)	168.2
Battery mode BTU / hr. (full load)	604.4
COMMUNICATIONS	
Communications interface	USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface
Network monitoring port description	Supports detailed monitoring of UPS and site power conditions
PowerAlert software	Included
Communications cable	USB and DB9 cabling included
WatchDog compatibility	Supports Watchdog application, OS and hard-reboot restart options for remote applications
LINE / BATTERY TRANSFER	
Transfer time	5 milliseconds (line to battery mode); 1 millisecond (battery to line mode)
Low voltage transfer to battery power (setpoint)	83 (120V), 87 (110V), 83 (100V)
High voltage transfer to battery power (setpoint)	145 (120V), 133 (110V), 121 (100V)
SPECIAL FEATURES	
Grounding lug	Back panel grounding lug
Cold Start (startup in battery mode during a power failure)	Cold-start operation supported
High availability UPS features	Hot swappable batteries
Green & high efficiency features	Greater than 95% efficiency - GREEN UPS; Individually controllable load banks
CERTIFICATIONS	
UPS Certifications	Tested to UL1778 (USA); Tested to CSA (Canada); Tested to NOM (Mexico); Meets FCC Part 15 Category A (EMI)
WARRANTY	
Product Warranty Period (Worldwide)	2-year warranty, 3 year with registration. Note: registration is required for 3-year warranty.
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	$250,000 Ultimate Lifetime Insurance

Related Items

Optional Products

Product Type	Related Model	Description	Qty.
Extended Warranties	WEXT5-2200-3000	5-Year Extended Warranty - For Smart Line-Interactive and Online Tower or Rack models, 2200-3000VA or less	1
External Battery Packs	BP48V24-2U	BP48V242U - External Battery Pack for UPS System	1

External Battery Packs	BP48V60RT-3U	External Battery Pack and Cable. 3U, Expandable, Blue 2-Point Connector	1
Power Distribution	PDU1220	Basic PDU / Power Distribution Unit - Safe, reliable power distribution for critical networking equipment	1
Power Distribution	PDUB20	Dual source Power Distribution Unit / PDU with Manual Transfer Switch enables Hot-swappable UPS Replacement in Critical Network Applications	1
Power Distribution	PDUBHV20	Dual source Power Distribution Unit / PDU with Manual Transfer Switch enables Hot-swappable UPS Replacement in Critical Network Applications	1
Power Distribution	PDUMH20	Metered PDU / Power Distribution Unit- Safe, reliable power distribution with digital current meter	1
Power Distribution	PDUMH20ATNET	Switched, Metered PDU with ATS - Power Distribution Unit with dual-input Auto Transfer Switching, individual outlet control and SNMP network interface	1
Power Distribution	PDUMNH20	Monitored PDU / Power Distribution Unit supports real-time remote monitoring of load level, voltage and frequency with options for remote environmental and security monitoring	1
Power Distribution	PDUMNV20	Monitored PDU / Power Distribution Unit supports real-time remote monitoring of load level, voltage and frequency with options for remote environmental and security monitoring	1
Power Distribution	PDUMV20	Metered PDU / Power Distribution Unit - Safe, reliable power distribution with digital current meter	1
Power Distribution	PDUMV20NET	Switched, Metered PDU with Remote Monitoring - 0U Vertical Rackmount Power Distribution Unit for Networks with Individually Switchable Outlets, Current Metering, Remote Monitoring and Control	1
Power Distribution	PDUV20	Safe, reliable power distribution for critical networking equipment	1
Rack Accessories	SRSWITCH	Magnetic Door Switch Kit (2-pack for front and rear doors; requires ENVIROSENSE.)	1
SNMP Accessories	ENVIROSENSE	Monitors temperature, humidity and contact-closure inputs. (Requires SNMPWEBCARD or switched PDU.)	1
SNMP Accessories	SNMPWEBCARD	For remote monitoring and control via SNMP, Web, or Telnet.	1
Software	WATCHDOGSW	WatchDog Service Monitoring / Reboot Software	1

More information, including related products, owner's manuals, and additional technical specifications, can be found online at www.tripplite.com/en/products/model.cfm?txtModelID=4672.

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